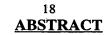
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An electrically resistive foil comprising a resistive composite material including a conductive material and a non-conductive material alone or incorporated into a two layer foil material that includes a conductive metal layer and a layer of the resistive composite material. This invention also includes circuit boards comprising an insulative substrate and an integral resistor comprising the resistive composite material of this invention as well as methods for manufacturing printed circuit boards including integral resistors.